





Flexible by design



4 PASSENGER CLUB CABIN

6 PASSENGER CABIN

FLEXIBLE CARGO CABIN: 6m³ volume

P. 3

SCALABLE PLATFORM



Larger form factors on same technologies in the future



Source: Management estimates.

Purpose of dual concurrent certification / validation

Develop a single aircraft for global operations













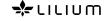




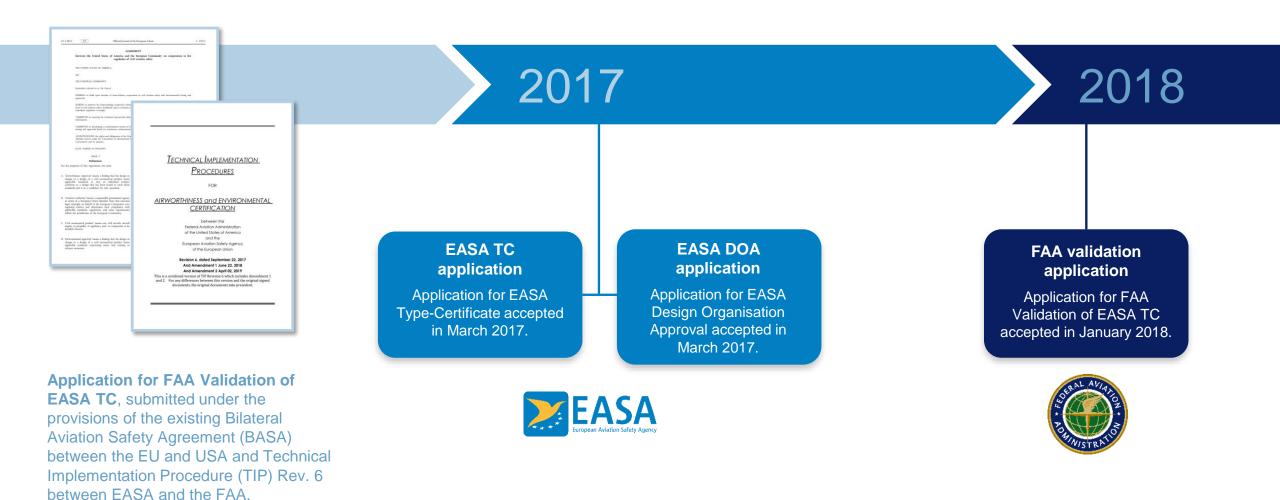




NETJETS



Timeline of engagements



Source: Company Information.

Key Success Factors on the Path to EIS

Air Operations



New EU Air Ops requirements, Part-IAM proposed in 2022, under NPA 2022-06



New SFAR for operational requirements for powered lift aircraft in development.

Air Traffic Management



Leveraging existing regulatory framework (SERA) and national regulatory frameworks.



Leveraging existing regulatory framework for initial operations. New requirements under development.

Air Crew



Transitional provision proposed under NPA 2022-06 and CM-FCD-001, in 2022.



New SFAR and other operational requirements for powered lift aircraft in development.

Infrastructure



Utilizing existing helicopter sites and aerodromes with spec. for vertiports proposed in 2022 (PTS-VPT-DSN).



FAA Vertiport Design , Engineering Brief No. 105 published in 2022 and new AC to be finalized in 2024.

Initial Airworthiness



EASA published special conditions for airframe and electric engines in 2019 / 2020.



FAA are currently publishing special class airworthiness criteria for powered lift



Certification approach EASA and FAA

Denotes complete Denotes drafted and in discussion with

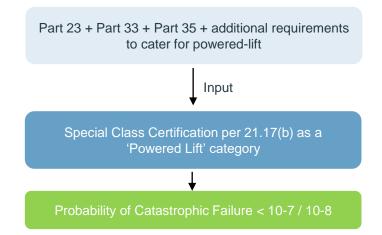
authority for original 21.17(a) Part 23 approach



Denotes not started



CS-23 Amendment 5 for Normal-Category aeroplanes + elements from CS-27 for small rotorcraft as necessary and CS-E for Engines Regulatory Input framework Special Conditions SC VTOL: for VTOL aircraft and SC E-19: Electric / Hybrid Propulsion System Safety Probability of Catastrophic Failure < 10-9 **Objective**



TECHNICAL FAMILIARIZATION WITH LILIUM JET ARCHITECTURE Alignment on list of Significant Certification Standard Differences between approach the EASA and FAA Significant Standard **FAA Certification Basis EASA Certification Basis** Differences

Certification program progress

Complete In discussion with relevant authority Not started

Aircraft technical familiarization

How does the Lilium Jet

Certification basis

Release all Certification Plans and all Means of Compliance to authority

Agreement on Certification Program (incl. Means of Compliance)

Agreement on how will we

demonstrate compliance and

authority Level of Involvement

Compliance Demonstration & Reports

Type Certification

architecture work?









Which requirements will apply

for the Lilium jet?



Which means and methods to

demonstrate compliance?



















G-1 Issue Paper







G-2 Issue Paper

Additional tests & reports to account for Significant Standard Differences between EASA and FAA Certification Basis

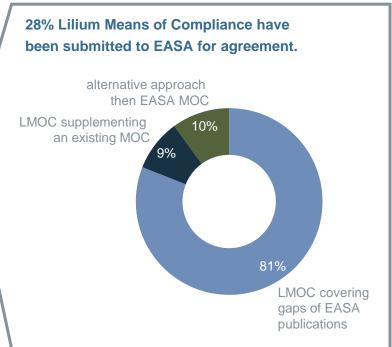


2025 Certification Program progressing well





Certification Basis EASA **100% AGREED** Which requirements will apply for the Lilium Jet? **IN PROCESS** EASA Means of Compliance **72% AGREED** 28% SUBMITTED Which means to demonstrate compliance? FAA **CO-VALIDATION** VIA EASA / FAA TREATY Certification Plans EASA 100% SUBMITTED Collection of plans towards compliance FAA **CO-VALIDATION VIA EASA / FAA TREATY** demonstration Starts once certification plans agreed Compliance EASA 100% OUTSTANDING Demonstration Verification of FAA CO-VALIDATION VIA EASA / FAA TREATY compliance LEGEND AGREED: Refers to items which have been approved by the relevant authority; IN PROCESS: Refers to released documentation submitted by Lilium and pending approval by the





OUTSTANDING: relates to items yet to be submitted by Lilium to the relevant authority

Compliance demonstration begins after the certification program is agreed; As part of the EASA type certification process, Lilium will additionally submit for approval its operational suitability data (OSD) covering pilot training, maintenance staff and simulator qualification and environmental protection, which are in active discussions with EASA.

Key differences EASA / FAA For commercial air transport over densely populated areas

EXAMPLES IDENTIFIED





Safety Objectives for Catastrophic Failure Condition	≤ 10 -9	For Class II ≤ 10 ⁻⁷ For Class III ≤ 10 ⁻⁸
Catastrophic Failure Condition does not result from a single failure		
3. Continued safe flight and landing at a <u>vertiport</u>		
Bird deterrence device in addition to designing for bird strike		✓
5. Controlled Emergency Landing by glide, autorotation or equivalent means	#	✓
6. Energy System Thermal Runaway	By Cell Non-propagation and Management	By Containment

only permissible for basic category eVTOL's, not permitted for commercial air transport over densely populated areas



Energy Storage System Designed to fulfill aerospace requirements

10 packs/AC

- Catering for redundancy to fulfill ≤ 10⁻⁹
- **Integrated Battery** Management and HV Power **Distribution Functions**

Network Configuration

- To ensure graceful degradation
- The aircraft can sustain multiple pack failures and still maintain Continued Safe Flight and Landing (CSFL)

Designed to satisfy regulatory requirements from EASA and FAA

- Thermal runaway containment
- Cell level non-propagation
- Crashworthiness



Sources: Lilium Engineering. P. 11

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